



## SEQUENCE LISTING

COPY OF PAPERS  
ORIGINALLY FILED

# 7

<110> Elena Feinstein, et al.

<120> Sequence Characteristics of Bladder Cancer

<130> 65503-B

<140> 09/825,682

<141> 2001-04-04

<160> 49

<170> PatentIn version 3.1

<210> 1

<211> 156

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (3)..(132)

<223> n = unknown

<400> 1

tccgtctcat tgagggtcct gaggaagtgc atctcatcat tcagggcatt caccttggcc  
60

tccagctcca ctttgctcat gtaggcagca tccacatcct tcttcagcac cacaactca  
120

ttctcagcag ctgtgcggcg gttaattca tcttcg

156

<210> 2

<211> 219

<212> DNA

<213> Homo sapiens

<400> 2

aaggcttatt ccatccggac cgcatccgcc agtcgcagga gtgcccgcga ctgagccgcc  
60

tccaccact ccactcctcc agccaccaccaca cacaatcaca agaagattcc caccctgcc  
120

tcccatgcct ggtcccaaga cagtgagaca gtctggaaag tgatgtcaga atagcttcca  
180

ataaaggcagc ctcattctga ggcctgagtg aaaaaaaaaa  
219

<210> 3  
<211> 133  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (3)..(132)  
<223> n = unknown

<400> 3  
cantatataa cnaattggag ctcaatngcn cgcggnncgcg tgtttctgg gtagagggat  
60

gngaaggaag ggacccttac ccccggtct tctcctgacc tgccaataaa aatttatggt  
120

ccaaggnaaa ana  
133

<210> 4  
<211> 417  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (23)..(347)

<223> n = unknown

<400> 4

actcattgaa cttgagctcc gantcctgat tcncatcnaa gctctnnatc tgctcatcan  
60

gagancccac atccttgagc agatggngca nctgctgntt aaccanctct nngaactcgn  
120

agannntaag gctatccttc cggnccctcct gccttgcaaa ggtgaagaaa gtggtnnca  
180

cngtcncaat ggantcctct agctctgtca gtggttctgc tgcnattatg gaacctgagg  
240

ccaaagctga tgtcctcaag gggctagctg acctttgtca gggctgacct ctcctcagcg  
300

gcagcagggc agagtgctga acccaggaac ccacagatcc tccccgnntcc tgtctcccg  
360

tgacaagggt cctggaacgg ggcgtctctg actccctgct ccaggacggg tttaagt  
417

<210> 5

<211> 124

<212> DNA

<213> Homo sapiens

<400> 5

actttgagaa ggcaggactc aaatgatgcc ctggagatgt cacagattcc tggcagagcc  
60

atggtcccag gcttcccaaaggatgtt ggcaattattt cccctaggct gagcctgctc  
120

atgt

124

<210> 6

<211> 146  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (20)..(56)  
<223> n = unknown

<400> 6  
gactagaacc caccccttn cttccagcc ttctgtcat catctccaca gnccanccat  
60  
  
cccctgagca cactaaccat ctcatgcagg ccccacctgc caatagtaat aaagcaatgt  
120  
  
cactttgtta aaacatgaaa aaaaaa  
146

<210> 7  
<211> 165  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (15)..(48)  
<223> n = unknown

<400> 7  
ctagtataca ctccncatag natacggtgc agtcaattt cgcgcggnng cggacgacga  
60  
  
cctgcgaggg tgtttctgg gtagagggat gggaaaggaaag ggacccttac ccccggtct  
120  
  
tctcctgacc tgccaataaa aatttatggc ccaaggaaaa aaaaa  
165

<210> 8  
<211> 359  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (7)..(354)  
<223> n = unknown

<400> 8  
ttttttnnat nttatTTgg gtattgggtgt tntttctttt ttccctcttnc cttcttaact  
60

caagacttgt agtgttgtaa acctgcctca caaaatacat ggtataact tntctttaaa  
120

aaaanaaaaaa agacagnctt nacaccattt ctaatngnan nactatTTTt gggcaatgtt  
180

atgcaccact tcaatttccc cattgtgacc cctatcactt catttgatat ccctttnga  
240

cccanccatc tccttcatat atggcatgt ccatagattt acaaagaaag tttacacttt  
300

ngaataaaaga tgcaaagtat gcaaaaacat taatactgat gcnaaaaaaa ntanaaaaa  
359

<210> 9  
<211> 190  
<212> DNA  
<213> Homo sapiens

<400> 9  
ggtaccgacg gacctgcgga gactcctgcc ctgttgta tagatgcaag atatTTtat  
60

atatTTTgg ttgcaatatt aaatacagac actaagttat agtatatctg gcaaggccaac  
120

ttgtaaatca ccacctcact cctgtactta cctaaacaga tataaatggc tggttttaa  
180

aaaaaaaaaa  
190

<210> 10  
<211> 178  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (81)..(150)  
<223> n = unknown

<400> 10  
accctggag agaagttga agaaaccaca gctgatggca gaaaaactca gactgctgca  
60

actttacaga tggtcattt ngtcagcata ggagttagat gggaaaggaa agcacantaa  
120

caagaaaatt ganagatgnt aaatttagtgn tggagtgtgt catgaacaat gcacctgt  
178

<210> 11  
<211> 157  
<212> DNA  
<213> Homo sapiens

<400> 11  
tagtgtggaa gcatagtgaa cacactgatt aggttatggg ttaatgttac aacaactatt  
60

ttttaagaaa aacatgtttt agaaatttg tttcaagtga catgtgtgaa aacaatatcg  
120

atactaccat agtgagccat gattttctaa aaaaaaaaa  
157

<210> 12  
<211> 157  
<212> DNA  
<213> Homo sapiens

<400> 12  
tagtgtggaa gcatagtgaa cacactgatt agttatgg ttaatgttac aacaactatt  
60  
  
tttaagaaa aacaagttt agaaatttg ttcaagtgc atgtgtgaaa acaatattgt  
120  
  
atactaccat agtgagccat gatttctaa aaaaaaaa  
157

<210> 13  
<211> 320  
<212> DNA  
<213> Homo sapiens

<400> 13  
aaagagggcg gcaggggcct ggagatcctc ctgcagacca cgcccgtcct gcctgtggcg  
60  
  
ccgtctccag gggctgatcc ctcctggaaa ttgacgaggg gtgtcttggg cagagctggc  
120  
  
tctgagccgc cctccatcca aggccagggtt ctccgttagc tcctgtggcc ccaccctggg  
180  
  
ccctgggctg gaatcaggaa tatttccaa agagtgatag tcttttgct tttggcaaa  
240  
  
actctactta atccaatggg ttttctctg tacagtagat tttccaaatg taataaactt  
300  
  
taatataaag taaaaaaaaa  
320

<210> 14  
<211> 221  
<212> DNA  
<213> Homo sapiens

<400> 14  
aaagtcatcc tccgtctacc agagcgtgca cttgtgatcc taaaataaagc ttcatctccg  
60  
  
ggctgtgccc cttggggtgg aaggggcagg attctgcagc tgctttgca tttctcttc  
120  
  
taaatttcat tgtgttgatt tcttccttc ccaataggtg atcttaatta cttcagaat  
180  
  
atttcaaaa tagatatatt tttaaaatcc ttaaaaaaaaa a  
221

<210> 15  
<211> 157  
<212> DNA  
<213> Homo sapiens

<400> 15  
ctctccagtt tgcacctgtc cccaccctcc actcagctgt cctgcagcaa acactccacc  
60  
  
ctccaccttc cattttcccc cactactgca gcacacctccag gcctgttgct atagagccta  
120  
  
cctgatgtca ataaaacaaca gctgaagcaa aaaaaaaaa  
157

<210> 16  
<211> 112  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (11)..(13)

<223> n = unknown

<400> 16

aggaaaggtg ngngctggaa gcactgaacc tacctcatcc tcctggtggg tgtggctacc  
60

ctcgccaccc caaattccat gtcattaaag aacagctaaa ttcaaaaaaaaa aa  
112

<210> 17

<211> 158

<212> DNA

<213> Homo sapiens

<400> 17

tgtccgtctt caccatccc caagcctact agagcaagaa accagttgtatataaaaatg  
60

cactgcccta ctgttggtat gactaccgtt acctactgtt gtcattgtta ttacagctat  
120

ggccactatt attaaagagc tgtgtAACAT caaaaaaaaa

158

<210> 18

<211> 398

<212> DNA

<213> Homo sapiens

<400> 18

caggagacca tccgcgtcac caagccctgc acccccaaga ccaaagcaaa ggccaaagcc  
60

aagaaaggga aggaaaggga ctagacgcca agcctggatg ccaaggagcc cctgggtgtca  
120

catggggcct ggcccacgccc ctccctctcc caggccccgag atgtgacccca ccagtgcctt  
180

ctgtctgctc gtttagcttta atcaatcatg ccctgccttg tccctctcac tccccagccc

240

cacccctaag tgcccaaagt ggggaggcac aaggattct ggaagcttg agcctcccc  
300

aaagcaatgt gagtcccaga gcccgtttt gttttcccc acaattccat tactaagaaa  
360

cacatcaaataaactgactt tttccccca aaaaaaaaa  
398

<210> 19  
<211> 362  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (267) .. (335)  
<223> n = unknown

<400> 19  
cttgacgtg gagaggaact cctgcaataa cttcatctat ggaggctgcc gggcaataa  
60

gaacagctac cgctctgagg aggccctgcattcccgctgc ttccgcagc aggagaatcc  
120

tccctgccc cttggctcaa aggtggtgct tctgggggg ctgttcgtga tggtgttgat  
180

cctcttcctg ggagcctcca tggtctacct gatccgggtg gcacggagga accaggagcg  
240

tgccctgcgc accgtctgga gtcgnaga tgacaaggag cagctggtga agaacacata  
300

tgtcctgtga ccgcctgtc gccaaagagga ctggngaaag ggaggggaga ctatgtgtga  
360

gc

362

<210> 20  
<211> 118  
<212> DNA  
<213> Homo sapiens

<400> 20  
aaaaagagta aaacactttc agtttctccc cttagcccc taaaacaaca tcttacagtc  
60

tggatctgga tctacctata cagtccata tttagcttcta aaatatttgt caggaggg  
118

<210> 21  
<211> 216  
<212> DNA  
<213> Homo sapiens

<400> 21  
cccaaatgga atgttgcccc cttaaacacc atttccctc caggaccacc ttggtttcta  
60

ggcaactgtgg ttcttggcag gggctgttta aggtaaaagg gtatgtgg agctacagtc  
120

tgaagaacat agcttggct caagttcaaa tgagccatct ttttcctttg cgtttttctt  
180

gactgaaggt gagatgttat ttgtggcatg tgaact  
216

<210> 22  
<211> 140  
<212> DNA  
<213> Homo sapiens

<400> 22  
acaaagactg ctgataacta tctgtgattg ataggaaatt tttttcttg atttctctgt  
60

gagaaaatgt aatgcgtactt ttataaagcc tggacttcta ctttatttaa taaatcaatg  
120

tttgcaatgg taaaaaaaaa  
140

<210> 23  
<211> 145  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (42)..(69)  
<223> n = unknown

<400> 23  
gcaataaaagc tgtccattca attccaaata ctggtttaa gngtatagcc actgatattc  
60

tttcatgtnt agaaattctt tctgttatta ttcaagaaaa tgttttaat catgctaata  
120

aacttttttg gagatgaaaa aaaaa  
145

<210> 24  
<211> 187  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (3)..(184)  
<223> n = unknown

<400> 24  
ggnaccacgt acctgctgaa tgtntcnncg nnatgnncg aggccatgct gttgctgatn

60

tantactntg aaaatangga tatcatgatg ggaatgcattt tcatgaggc cagantcgtt  
120

ctactgtcna taanctgtnt actngcgttg anaanaaaang atgtcaaagn ccccccgtaa  
180

aaangta  
187

<210> 25  
<211> 80  
<212> DNA  
<213> Homo Sapiens

<400> 25  
gtccccagtct tcaccaggtg tcttcctct tttactcagg aggactttcc cagaaaaacc  
60

atgccactag caaaaaaaaaa  
80

<210> 26  
<211> 155  
<212> DNA  
<213> Homo sapiens

<400> 26  
ttagtgtctt caggccaacc tggtggaaat gttgttctct gaagattaag attttaggat  
60

ggcaatcatg tcttgatgtc ctgatttggtt ctatcatcaa taaactgtat acttgctttg  
120

aattcatgtt agcaataaaat gatgttaaaa aaaaaa  
155

<210> 27  
<211> 184

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (24)..(170)

<223> n = unknown

<400> 27

ggatcgacga cctgcttccc agangcgnnc nngaggncn cttgttnnng ncnnngnanac  
60

nnacccantt nanttnnagc ctttntgnaa taaatataca caggccaccc atgccntgag  
120

cacactaacc acntgatgca ggccccacct tgccaatagt aataaagcan tgggacgaaa  
180

ttta

184

<210> 28

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (14)..(92)

<223> n = unknown

<400> 28

gggc当地aaagc cc当地ngcatcc aancc当地angc aaggna当地aaa ngancnngga gaggannacc  
60

caagcanntn ncaaccatca aatggagggc angccc当地gggg

100

<210> 29

<211> 114  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (13)..(106)  
<223> n = unknown

<400> 29  
gggccaaagc cgngcatcca anccancgc anggnanaaa ngangangga nanggatnac  
60

ccangcctnt attaaccatc aantggang gcaagcccgg ggcatntatt gatt  
114

<210> 30  
<211> 100  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (13)..(99)  
<223> n = unknown

<400> 30  
aggacccttg aanacnacac agatctgtgn gaaacaangg nacntagcgt cccnaaagtg  
60

ccnggttnnn gtanncnag ngngngacn gngcncatnt  
100

<210> 31  
<211> 227  
<212> DNA  
<213> Homo sapiens

<400> 31

atccagagac catcaatcct gctagagtgc agggtggcaa gcacccaagg gtggctgacc  
60

aagactgcag agtctcctcc atttcaggt ccattcagcc tcctggcatt taactaccag  
120

catccagtgg tccccaaagga atcccttcct agcctcctga catgagtctg ctggaaagag  
180

catccaaaca aacaagtaat aaataaataa ataaactcaa aaaaaaaa  
227

<210> 32

<211> 183

<212> DNA

<213> Homo sapiens

<400> 32

ctgcaggagt cagcgttcaa tcttgacctt gaagatggga aggatgttat ttttacgtac  
60

caattctttt gtcttttgc attaaaaaga agtacatgtt cattgttagag aatttggaaa  
120

ctgtagaaga gaatcaagaa gaaaaataaa aatcagctgt tgtaatcacc tagcaaaaaa  
180

aaa

183

<210> 33

<211> 297

<212> DNA

<213> Homo sapiens

<400> 33

cacgcatacg gggccagtcc cacatatttgc gcaaccagac cagcatccag gacaacacaa  
60

agtatgttgt ttgttgttag agggcttggg acatttcact ctttgccagc ctcagcttaa  
120

tccaggagac aaagattatt ttccttatta tctcttctgc ataggatctg caatcagaac  
180

tattgaacct ctccatttag accgccactc acacctatgg gaaaaggta atgtatcatc  
240

ggcttagcaa caggaatac tattcgatg atggaaaatg gggacaaaag gctttgg  
297

<210> 34  
<211> 379  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (245)..(285)  
<223> n = unknown

<400> 34  
ctatgaatag cttcttgctt tatgacttta ggattaacctt gtaaaaaaaca tatcctgaac  
60

taagatatgc aaaatactca ttttcaagtt atggaaatgt gtttgtggca tataggactg  
120

tgggtctgt gtgtgttagtg agagtgtgta tccacttta taactggaat ttaatttaca  
180

ttcataaaact actatatttc ccatcttgca aatcatttta tgtctcatct gtttttcctt  
240

tcggntatat ctggnttt gaataccaac attaaaaatg atggnatttt atctttaaa  
300

ctaaaaatt attaataaca gctatatgga cttataaaaa ttgatttctt atttattatt  
360

agacattact actaaaagg  
379

<210> 35  
<211> 163  
<212> DNA  
<213> Homo sapiens

<400> 35  
ctaaccacg attctgagcc ctgagtatgc ctggacattg atgctaacat gaccatgctt  
60

ggatgtctc tagctggtct gggatagct ggagcactta ctcaggtggc tggtaaatg  
120

acacctacga aggaatgagt gctatagaga ggagagagga gtg  
163

<210> 36  
<211> 508  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (319)..(507)  
<223> n = unknown

<400> 36  
cagctgatgt catgtggtgc tgagaagaaa gcagatcaca cttcatcaca gaaagaatgc  
60

cttgtgatta tcttctccac atctgaaatt cctttgaca cctgcattgg gccgactgcc  
120

attccatga ctgctgcacc tgcgtttta gagaatgcct cataacccac tgattctcat  
180

tcacagagaa tggaaatacg gaatgaagaa agattccagc agcttataga aggatagcaa  
240

tatTTggga caggaaaat cctgtcatac ctcaccttt cctcaggagg agttctgagc

300

tggtcctgct tttcatagnt gtttctttc ttccacttaa gaactcatag atttttctta  
360

ctgtcctaag gaagtccctta cctctgaggt atctcctcaa tgaataactgt tttcaaggct  
420

gaaatagttc attatgttaa taaccttctt tatgttctca gggaaatgct tagtggtgt  
480

cacaaaaagg gcctttctt tnctttnc  
508

<210> 37

<211> 89

<212> DNA

<213> Homo sapiens

<400> 37

cttcaaaaag tgtattgtca aacataccta actttcttgc aataaatgca aaagaaaactg  
60

gaacttgaca attataaata gtaatagtg  
89

<210> 38

<211> 146

<212> DNA

<213> Homo sapiens

<400> 38

caatttgtta tagtatagtta tcaaatttct atatagattt tatacctcag tggggaaaaaa  
60

taactgattc caatgacatt cattttgttt tcatctgtga tagtcatgga tgcttttatt  
120

ttccttgggg tgctgaaatt gagctg  
146

<210> 39  
<211> 149  
<212> DNA  
<213> Homo sapiens

<400> 39  
cctgccaaaa tcctaccaca ggataacatt acaagcaaaa aatttacatg ttccaaagtc  
60  
  
taccacactc aagaagttac taagaactct tgcagaataa aagtcaccat ttttagaaatg  
120  
  
caaaccact tccaaccttt gcacagtcc  
149  
  
<210> 40  
<211> 348  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (339)..(339)  
<223> n = unknown

<400> 40  
cattttagt gacatttaa aagcagtcag attctataaa tggcaagtaa gcctgaagtg  
60  
  
aggatactgc aattttcgga gaaaagaaca gcagctctt aagtgttgc atttctatt  
120  
  
tggggggcag ggaactgtca ttcattttgc acaattcttg aactgatgtc agcacccgag  
180  
  
tggctcctga atttaagtct gggacgacat ctttatattt tacatgaatc tttaaacaat  
240  
  
tctgtgagca aagttttagt ctgctggatt attgtctgtc tttatagcaa gttccagtaa  
300

accacaagta tggcaaagct tatccaattt tatgcttgna gcagtca  
348

<210> 41  
<211> 368  
<212> DNA  
<213> Homo sapiens

<400> 41  
gctggttggg ggaattggag gcttcttagga ggtggcacgg tgcacgccaa gatggctgtg  
60

tccacagagg agctggaggc cacggttcag gaagtccctgg ggagactgaa gagccaccag  
120

tttttccagt ccacatggga cactgttgcc ttcattgttt tcctcacctt catgggcacc  
180

gtgctgctcc tgctgctgct ggtcgctgcc cactgctgct gctgcagctc ccccgcccc  
240

cgcagggaaa gcccccaggaa ggaaagaccc aagggagtgg ataacttggc cctggAACCC  
300

tgaccctgtg tctcctgccc ggtggcagta acaaagcctt ctgtctgccc agaaaaaaaaa  
360

aaaaaaaaa  
368

<210> 42  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 42  
ctaaatctag gtattctggc tgagtgtatc tgggtgggcc agctaaaaat aaacctcatt  
60

gaactccagc cccaaacccag agaaacatcc agaagagcct tgaatttagtg atccaaaacc

120

cagggggaaa ggcgacattc tcaccccccag cacccttc acctcacctc aactcctact  
180

ctctcggtct ataatcactg ctctctctct ccccaacacc actattgaac aggagccctt  
240

gtcaccaggta ccaagcaatt ccctaaggta tcacaaacaa tggtgatgc aattttacct  
300

tactcagtaa ccacgaggct cacatcccta atttcagact ctaccagctc tcaggtgcc  
360

tcccaagggg ctgcctgcat gaagatgcct tggaagttagc cccttcaca atcacaggaa  
420

ttaacccctt ggtgttggag gggcctcact ttaagcaatc ccagtagtaa acattggata  
480

aatctaaagg ctttcttaa tttttttt ctcttcgtaa aggattcaaa gcaggcacag  
540

tggtg

545

<210> 43

<211> 376

<212> DNA

<213> Homo sapiens

<400> 43

cttttttat gctaataatgc tctggctgg agaaatgaaa tcctcaagcc atcaggattt  
60

gctatttaag tggcttgaca actggccac caaagaacct gaacttcacc ttttaggatt  
120

ttagctgttc tggaacacat tgctgcactt tggaaagtca aaatcaagtg ccagtggcgc  
180

ccttccata gagaatttgc ccagcttgc tttaaaagat gtcttgat ttatatacac

240

ataatcaata ggtccaatct gctctcaagg cttgggtcct ggtgggattc cttcaccaat  
 300

tacttaatt aaaaatggct gcaactgtaa gaacccttgt ctgatatatt tgcaactatg  
 360

ctcccattta caaatg  
 376

&lt;210&gt; 44

&lt;211&gt; 418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 44

ccttcgaaa tacttcctcc aggtggcagc accaagaata tttctggaag catgtgatga  
 60

gttgtgtat gaagatagag cccattgtgc tgtctctcca ggacacgttg tgtggcggtt  
 120

aagagcagaa agcaatgaag tccttctcca cgtgggtctt gtaaacagca tcttcctcca  
 180

ggttctcaga tgactgtgaa gaggccactt ccaaggatgc tggagagtct ctgacccaca  
 240

gttccccacg gtttgcacct ctgcaggcct ggacaatgat gaccttgggt ttgtccttca  
 300

gactgaggca gttgcggttg ttgaatatct ggaagatggt gtcataaagc agcacatctg  
 360

gtttttctc atcatgcaca gttccgcaga ttccctccag gatgccatga gacatgg  
 418

&lt;210&gt; 45

&lt;211&gt; 157

&lt;212&gt; DNA

<213> Homo sapiens

<400> 45

tttttttttt ttttttttgt tacggcagca cttttatttt tccttacaca atgacgtgtt  
60

gctggggcct aatgttctca cataacagta gaaaacccaa atttgttgta atctcttcaa  
120

agaatcgaga attgcgtaca aaaaaaaaaa aaaaaaaa

157

<210> 46

<211> 342

<212> DNA

<213> Homo sapiens

<400> 46

ggctggagca ggagattgcc acctaccgccc gcctgctgga gggagaggat gcccacctga  
60

ctcagtacaa gaaagaacct gtgaccaccc gtcaggtgcg taccattgtg gaagaggccc  
120

aggatggcaa ggtcatctcc tcccgcgagc aggtccacca gaccacccgc tgaggactca  
180

gctaccccccgg ccggccaccc aggaggcagg gaggcagccg ccccatctgc cccacagtct  
240

ccggcctctc cagcctcagc cccctgcttc agtcccttcc ccatgcttcc ttgcctgatg  
300

acaataaaagc ttgttgactc agctaaaaaaaaa aaaaaaaaaaa aa

342

<210> 47

<211> 207

<212> DNA

<213> Homo sapiens

<400> 47  
ggaccggaac aaggaccagg aggtgaactt ccaggagttat gtcaccttcc tgggggcctt  
60

ggctttgatc tacaatgaag ccctcaaggg ctgaaaataa atagggaaaga tggagacacc  
120

ctctgggggt cctctctgag tcaaattccag tggtgggtaa ttgtacaata aattttttt  
180

ggtcaaattt aaaaaaaaaaa aaaaaaaaa

207

<210> 48

<211> 119

<212> DNA

<213> Homo sapiens

<400> 48

ttttttttttt tttttgaaga caacttttag aaactgatgt ttatTTTcca tcaaccattt  
60

ttccatgctg cttaagagcc tatgcaagaa cagcttaaga ccagtcagtg gttgaagtc  
119

<210> 49

<211> 465

<212> DNA

<213> Homo sapiens

<400> 49

agcggtatg caggtggct gagctggcc tatggggggc tcacaaggccc cggcctcagc  
60

tacagcctgg gctccagctt tggctctggc gcggggtcca gtcctttcag ccgcaccaggc  
120

tcctccaggg ccgtgggtgt gaagaagatc gagacacgtg atggaaagct ggtgtctgag  
180

tcctctgacg tcctgccccaa gtqaacaqct qcqqcaqccc ctccccaaqccct accccttccta

240

cgctgccccca gagcctggga aggaggccgc tatgcagggt agcactggga acaggagacc  
300

cacctgaggc tcagccctag ccctcagccc acctggggag tttactacct ggggacccccc  
360

cttgcccattg cctccagcta caaaacaatt caattgcttt ttttttttg gtccaaaata  
420

aaacacctcagc tagctctgcc aatgtcaaaa aaaaaaaaaa aaaaa  
465